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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,166	09/10/2001	Tadashi Kokubo	06082.0026	9560
. 7	590 04/09/2003			
Finnegan Henderson Farabow Garrett & Dunner			EXAMINER	
1300 I Street N W Washington, DC 20005			SHARAREH, SHAHNAM J	
			ART UNIT	PAPER NUMBER
•			1617	
			DATE MAILED: 04/09/2003	Þ

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Commonstrate Commonstrat		Application No.	Applicant(s)			
Shahnam Sharareh 1617	•	09/936,166	KOKUBO ET AL.			
Shahnam Sharareh Shahnam Shannam S	Office Action Summary					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Learnesing to the many be evaluable under the provision of 3 CFR 1.13(s). In or event, however, may a reply be timely filed Life period for reply specified above is less than thinty (0) days, a reply within the salustory minimum of thinty (0) days will be considered timely. If the period for reply specified above is less than thinty (0) days, a reply within the salustory minimum of thinty (0) days will be considered timely. If the period for reply specified above is less than thinty (0) days, a reply within the salustory minimum of thinty (0) days will be considered timely. If the period for reply specified above is less than thinty (0) days, a reply within the salustory minimum of thinty (0) days will be considered timely. If the period for reply specified above is less than thinty (0) days and value of the salustory minimum of thinty (0) days will be considered timely. If the period for reply specified above is less than thinty (0) days and value of the salustory minimum of thinty (0) days will be considered timely. If the period for reply specified does, the manifest and the abolication to became AdaMoDett (2) us to 5 (13.1). Responsive to communication(s) filed on 10.1 January 2003. Status 1) Sense this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 10-12 is/are pending in the application. 5) Claim(s) 1.3 and 10-12 is/are rejected. 7) Claim(s) 1.3 and 10-12 is/are rejected. 7) Claim(s) 1.3 and 10-12 is/are rejected. 7) Claim(s) 1.3 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. Application Papers 9) The proposed drawing correction filed on 1.3 are subject to the drawing(s) be held in abeyance. See						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Edentions of time may be available under the provision of 3 CFR 1.155(a). In no event, however, may a reply be limely lited - Edentions or time may be available under the provision of 3 CFR 1.155(a). In no event, however, may a reply be limely lited - Edentions or the provision of the major and the consideration of the consideration. - Falsate to reply within the set or extended period for reply with by statute, cause the application to become AGMADONED (SS U.S.C.§ 133). - Falsate to reply within the set or extended period for reply with by statute, cause the application to become AGMADONED (SS U.S.C.§ 133). - Falsate to reply within the set of extended period for reply with by statute, cause the application, even if fandly fleet, may reduce any search part that the consideration, even if fandly fleet, may reduce any search part that application is consideration. - Falsate to reply within the set of extended period for reply within the set of the communication, even if fandly fleet, may reduce any search part of the consideration. - Falsate to reply within the set of the consideration of the consideration of the consideration of the consideration of the consideration. - Status - Status - This action is FINAL. - 2b) This action is not for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213. - Disposition of Claims - Application (10-12) is/are pending in the application. - 4a) Of the above claim(s)	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be audiselumed the provisions of 37 CFR 1.13(a). In no event, however, may a reply be limity filed after SX (6) MONTHS from the mailing date of this communication. - Extensions of time may be audiselumed the provisions of 37 CFR 1.13(a). In no event, however, may a reply be limity filed after SX (6) MONTHS from the mailing date of risk communication. - Palare to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C.§ 133). - Any reply receded by the Ottoe user than three removins share the mailing date of risk communication, even # timely filed, may reduce any many plants them adjustment. Set 97 CFR 1.79(b). - Statuse 1)						
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DETAILED ACTION

Amendment filed on January 10, 2003 has been entered. Claims 1-8, 10-12 are pending. The amendment clarifies the content of the claims to the extent that the restriction requirement of Paper No.4 is withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-2, 4-5, 7-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Gray et al US Patent 5,885,547.

Gray discloses particulate material comprising ceramic microspheres having a diameter in the range of 5 to 200 microns wherein the microsphere is made of 99.99% pure yttria (Y2O3) (see claim 1, and col 7, lines 1-66). Gray further discloses methods of preparing such particulates by preparing a microsphere and then subjects the

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microspheres to neutron beams to product beta-radiation emitting radionuclide of ytrrium-90 (col 7, lines 35-37). Accordingly, Gray anticipates the limitations of the instant claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-8, 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gray US Patent 5,885,547 in view of Day US Patent 5,302,369 and Huang US Patent 5,073,404.

The teachings of Gray are discussed above. Gray also teaches the use of other ingredients such as silica in his microspheres (col 4, lines16-26). Gray fails to explicitly teach oxide crystals consisting essentially of a mixture of Y2O3 and YPO4 and further coat such microspheres with a film comprising silica.

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Day is used to teach that Yttrium can be incorporated into the microspheres in combination with phosphorus (see col 6, lines 40-62). Further, Day indicates that radioactive microspheres can contain silica and/or further be coated with additional coating material to control the leaching of radioactive material (col 1, line 45-col 2, line14; col 4, lines 1-14; col 5, lines 1-28; col 15, lines 1-62).

Huang is merely used to show the conventional use of silica composition in coating transparent glass microspheres and its potential benefits as antireflective and protective coating (abstract, col 1, lines 53-col2, line 55).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of invention to use a yrttrium phosphate mixture in Gray's composition, as taught by Day, and further coat the microspheres of Gray with a suitable coating material such as silica, because as taught by Day, the ordinary skill in the art would have had a reasonable expectation of success in controlling the leaching of radioactive material from the core composition and further protect the microglasses of Gray.

Further, the methods of employing a silica film on a microspheres of Gray would have also been obvious, because, as taught by Haung, such methods of coating wherein a silica coating is employed is conventionally employed to improve the antireflective and protective properties of microspheres.

Conclusion

No claims are allowed. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose

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telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

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